INTERNATIONAL SEARCH REPORT

International application No.

		PCI	7JPZUU4/UL1096
Int.C	FICATION OF SUBJECT MATTER 17 H03B5/32, H03B5/36, H01L27/ International Patent Classification (IPC) or to both nation	/04	
B. FIELDS S		ollar crassmondon and it	
	SEARCHED umentation searched (classification system followed by	· classification symbols)	
Int.C	1 ⁷ H03B5/30-5/42, H01L27/04	Classification symbols)	
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Documentation	searched other than minimum documentation to the ex	xtent that such documents are include	ed in the fields searched
Jitsuy	o Shinan Koho 1922-1996 1	Toroku Jitsuyo Shinan Ko	ho 1994–2004
		Jitsuyo Shinan Toroku Ko	
Electronic data	base consulted during the international search (name o	of data base and, where practicable, so	earch terms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where		Relevant to claim No.
Y	JP 2000-252480 A (Interchip 14 September, 2000 (14.09.00 Par. Nos. [0033] to [0046]; & US 6320474 B1	O),	1-7
Y	JP 2002-57526 A (Citizen Wa 22 February, 2002 (22.02.02) Par. No. [0042]; Fig. 15		1-7
Y	& US 2001-0045869 A1 JP 2001-60828 A (Toyo Commun	nication Equipment	1-7
	Co., Ltd.), 06 March, 2001 (06.03.01), Par. Nos. [0011] to [0014]; (Family: none)	Fig. 9	
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	cuments are listed in the continuation of Box C.	See patent family annex.	
A" document de	gories of cited documents: efining the general state of the art which is not considered icular relevance	date and not in conflict with the	he international filing date or priority application but cited to understand
•	cation or patent but published on or after the international	the principle or theory underlyin "X" document of particular relevance	e; the claimed invention cannot be
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		considered novel or cannot be step when the document is taken	considered to involve an inventive
		considered to involve an inve	considered to involve an inventive step when the document is
O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
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ate of the actual 25 Octo	completion of the international search ber, 2004 (25.10.04)	Date of mailing of the international 09 November, 200	
	g address of the ISA/ e Patent Office	Authorized officer	
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International application No.

		PCT/JP20	004/011096
(Continuation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No.	
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 180173/1984 (Laid-open No. 95104/1986) (Alps Electric Co., Ltd.), 19 June, 1986 (19.06.86), Page 6, line 17 to page 15, line 5; Figs. 1 to 5 (Family: none)		
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